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Meyassed, M.; Klenke, R.H.; Aylor, J.H.;
<u>Computer-Aided Design of Integrated Circuits and Systems, IEEE Transaction:</u>
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Smarkusky, D.; Ammar, R.; Antonios, I.; Sholl, H.;
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Ellis, H.J.C.; Ammar, R.A.; Demurjian, S.A.;
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18. **Augmenting knowledge acquisition processes of expert systems with hu**
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McCoy, M.S.; Levary, R.R.;
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Software Engineering, IEEE Transactions on
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21. **Performance modeling of fully adaptive wormhole routing in n-dimensior**
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Rajabzadeh, P.; Sarbazi-azad, H.; Najaf-abadi, H.H.; Ould-Khaoua, M.;
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**23. Performance modelling of interaction protocols for component-based sy:
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Juiz, C.; Puigjaner, R.;
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**24. Examining air transportation safety issues through agent-based simulati·
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Pritchett, A.R.; Lee, S.; Abkin, M.; Gilgur, A.Z.; Bea, R.C.; Corker, K.M.; Verma
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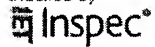|	
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1   An analytical model for cache replacement policy performance   ■
Fei Guo, Yan Solihin
June 2006 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the joint international conference on Measurement and modeling of computer systems SIGMETRICS '06/Performance '06**, Volume 34 Issue 1
Publisher: ACM Press
Full text available: 📄 pdf(373.72 KB)   Additional Information: full citation, abstract, references, index terms

> Due to the increasing gap between CPU and memory speed, cache performance plays an increasingly critical role in determining the overall performance of microprocessor systems. One of the important factors that a affect cache performance is the cache replacement policy. Despite the importance, current analytical cache performance models ignore the impact of cache replacement policies on cache performance. To the best of our knowledge, this paper is the first to propose an analytical model which p ...
>
> **Keywords**: analytical model, cache performance, replacement policy

2   General applications C: general applications: computer networks: Component-based   ■
performance modeling of a storage area network
Nava Aizikowitz, Alex Glikson, Ariel Landau, Bilha Mendelson, Tommy Sandbank
December 2005 **Proceedings of the 37th conference on Winter simulation WSC '05**
Publisher: Winter Simulation Conference
Full text available: 📄 pdf(370.13 KB)   Additional Information: full citation, abstract, references

> This work explores performance issues of system-level interactions by means of performance modeling. We focus on I/O performance in a storage area network (SAN), namely, the performance of I/O interactions of host servers and storage subsystems via the SAN fabric. We present a component-based simulation performance model, which supports a rich variety of both existing and future storage subsystems, allows for some basic network configurations, and addresses the major I/O aspects of the server op ...

3   Agent based modeling: new approaches to agent based modeling: Developing an   ■
agent model of human performance in air traffic control operations using Apex
cognitive architecture
Seung Man Lee, Ujwala Ravinder, James C. Johnston
December 2005 **Proceedings of the 37th conference on Winter simulation WSC '05**
Publisher: Winter Simulation Conference
Full text available: 📄 pdf(468.20 KB)   Additional Information: full citation, abstract, references

> For the analysis of large-scale complex systems, agent-based modeling and simulation has proven to provide a valuable research tool. The emphasis has, however, typically been on representing the dynamic behavior of physical entities such as aircraft. Simulation of human operators has often been minimal even though human behavior has an enormous impact on overall system performance and safety. Therefore, human

capabilities and limitations need to be taken into account early in the system design p ...

4 <u>General applications B: general applications of simulation I: Validation and calibration</u> ■
<u>of human performance models to support simulation-based acquisition</u>
Floyd Glenn, Kelly Neville, James Stokes, Joan Ryder
December 2004 **Proceedings of the 36th conference on Winter simulation WSC '04**
Publisher: Winter Simulation Conference
Full text available: <u>pdf(258.77 KB)</u>   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>

We present a methodology under development for calibration and validation of human performance models in support of simulation-based acquisition processes --- a human performance modeling validation program. We describe a conceptual framework based on an investigation of the characteristics of a wide variety of performance modeling frameworks and application domains. We offer initial taxonomies of model actions and empirical performance actions that will support the necessary mappings between mo ...

5 <u>Performance Modeling and Tuning Strategies of Mixed Mode Collective</u> ■
<u>Communications</u>
Meng-Shiou Wu, Ricky A. Kendall, Kyle Wright, Zhao Zhang
November 2005 **Proceedings of the 2005 ACM/IEEE conference on Supercomputing SC '05**
Publisher: IEEE Computer Society
Full text available: <u>pdf(441.49 KB)</u>   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>index terms</u>

On SMP clusters, mixed mode collective MPI communications, which use shared memory communications within SMP nodes and point-to-point communications between SMP nodes, are more efficient than conventional implementations. In a previous study, we proposed several new methods that made mixed mode collective communications significantly faster than the pure point-to-point ones. However, the optimal performance required the tuning of many parameters, which was done by testing every possible setting ...

6 <u>Queueing Network-Model Human Processor (QN-MHP): A computational</u> ■
<u>architecture for multitask performance in human-machine systems</u>
Yili Liu, Robert Feyen, Omer Tsimhoni
March 2006 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 13 Issue 1
Publisher: ACM Press
Full text available: <u>pdf(1.25 MB)</u>   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

Queueing Network-Model Human Processor (QN-MHP) is a computational architecture that integrates two complementary approaches to cognitive modeling: the queueing network approach and the symbolic approach (exemplified by the MHP/GOMS family of models, ACT-R, EPIC, and SOAR). Queueing networks are particularly suited for modeling parallel activities and complex structures. Symbolic models have particular strength in generating a person's actions in specific task situations. By integrating the two ...

Keywords: Cognitive model, cognition, human information processing, human-computer interaction, user interfaces

7 <u>Performance of service oriented systems: Model driven benchmark generation for</u> ■
<u>web services</u>
Liming Zhu, Ian Gorton, Yan Liu, Ngoc Bao Bui
May 2006 **Proceedings of the 2006 international workshop on Service-oriented software engineering SOSE '06**
Publisher: ACM Press
Full text available: <u>pdf(446.80 KB)</u>   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

Web services solutions are being increasingly adopted in enterprise systems. However, ensuring the quality of service of Web services applications remains a costly and complicated performance engineering task. Some of the new challenges include limited controls over consumers of a service, unforeseeable operational scenarios and vastly

different XML payloads. These challenges make existing manual performance analysis and benchmarking methods difficult to use effectively. This paper describes an ...

Keywords: MDA, code, model-driven development, performance, testing

8 Cross-architecture performance predictions for scientific applications using parameterized models

Gabriel Marin, John Mellor-Crummey

June 2004 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the joint international conference on Measurement and modeling of computer systems SIGMETRICS '04/Performance '04**, Volume 32 Issue 1

Publisher: ACM Press

Full text available: pdf(693.21 KB)   Additional Information: full citation, abstract, references, citings, index terms

This paper describes a toolkit for semi-automatically measuring and modeling static and dynamic characteristics of applications in an architecture-neutral fashion. For predictable applications, models of dynamic characteristics have a convex and differentiable profile. Our toolkit operates on application binaries and succeeds in modeling key application characteristics that determine program performance. We use these characterizations to explore the interactions between an application and a targ ...

Keywords: modeling, performance analysis, prediction

9 Model transformation (MT 2006): Software performance model-driven architecture

Vittorio Cortellessa, Antinisca Di Marco, Paola Inverardi

April 2006 **Proceedings of the 2006 ACM symposium on Applied computing SAC '06**

Publisher: ACM Press

Full text available: pdf(168.50 KB)   Additional Information: full citation, abstract, references, index terms

Model transformations in MDA mostly aim at stepping from a Platform Independent Model (PIM) to a Platform Specific Model (PSM) from a functional viewpoint. In order to develop high quality software products, non-functional attributes (such as performance) must be taken into account. In this paper we extend the canonical view of the MDA approach to embed additional types of models that allow to structure a Model Driven approach keeping into account performance issues. We define the relationships ...

Keywords: model driven engineering, software performance

10 Workshop summary: "applications of queuing models to ADP system performance prediction"

Mitchell G. Spiegel

January 1977 **ACM SIGMETRICS Performance Evaluation Review**, Volume 6 Issue 1

Publisher: ACM Press

Full text available: pdf(829.78 KB)   Additional Information: full citation, abstract, references

A workshop was held on the Applications of Queuing Models to ADP System Performance Prediction on 7-8 March 1977 at the National Technical Information Service in Springfield, VA. Topics were divided into four general areas: (1) Application of Queuing Models to Feasibility and Sizing Studies, (2) Application of Queuing Models to System Design and Performance Management, (3) Queuing Model Validation and (4) New Queuing Model Implementations. Mr Philip J. Kiviat, Chairman, SIGMETRICS, made the welc ...

11 Performance modeling from software components

Xiuping Wu, Murray Woodside

January 2004 **ACM SIGSOFT Software Engineering Notes , Proceedings of the 4th international workshop on Software and performance WOSP '04**, Volume 29 Issue 1

Publisher: ACM Press

Full text available: pdf(1.07 MB)   Additional Information: full citation, abstract, references, index terms

When software products are assembled from pre-defined components, performance prediction should be based on the components also. This supports rapid model-building, using previously calibrated sub-models or "performance components", in sync with the construction of the product. The specification of a performance component must be tied closely to the software component specification, but it also includes performance related parameters (describing workload characteristics and demands), and it abst ...

Keywords: CBML, LQN, generative programming, layered queue model, performance prediction, software component, software performance, submodel

12 Incorporating SPE into MDA: including middleware performance details into system models

Tom Verdickt, Bart Dhoedt, Frank Gielen

January 2004 **ACM SIGSOFT Software Engineering Notes , Proceedings of the 4th international workshop on Software and performance WOSP '04**, Volume 29 Issue 1

Publisher: ACM Press

Full text available: pdf(491.93 KB)   Additional Information: full citation, abstract, references, index terms

A typical feature of a distributed system is the heterogeneity of its components (their geographical spreading, using different programming languages and platform architectures, etc.). To solve some of the problems related to this heterogeneity, many distributed systems use communication middleware.This paper presents an MDA model transformation algorithm and tool for transforming a high-level Platform Specific Model (high-level PSM) to a low-level PSM by including the structural changes and the ...

13 Early-stage performance modeling and its application for integrated embedded control software design

Shige Wang, Kang G. Shin

January 2004 **ACM SIGSOFT Software Engineering Notes , Proceedings of the 4th international workshop on Software and performance WOSP '04**, Volume 29 Issue 1

Publisher: ACM Press

Full text available: pdf(537.21 KB)   Additional Information: full citation, abstract, references

Most of current embedded control software (ECSW) development techniques deal only with performance specifications during the early software design phase and delay the modeling and analysis until the detail design has been completed. In this paper, we propose a new approach to modeling and analysis of the performance of the designed ECSW without knowing the platform configuration and the software deployment. The functional model is assumed --- as is commonly the case in practice --- to be constru ...

Keywords: embedded software, integrated system, performance modeling, performance-aware design

14 Performance prediction for random write reductions: a case study in modeling shared memory programs

Ruoming Jin, Gagan Agrawal

June 2002 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 2002 ACM SIGMETRICS international conference on Measurement and modeling of computer systems SIGMETRICS '02**, Volume 30 Issue 1

Publisher: ACM Press

Full text available: pdf(186.73 KB)   Additional Information: full citation, abstract, references

In this paper, we revisit the problem of performance prediction on shared memory parallel machines, motivated by the need for selecting parallelization strategy for *random write reductions*. Such reductions frequently arise in data mining algorithms.In our previous work, we have developed a number of techniques for parallelizing this class of reductions. Our previous work has shown that each of the three techniques, *full replication, optimized full locking,* and *cache-sensitive,*

15 Performance modeling for fast IP lookups

Girija Narlikar, Francis Zane

June 2001 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 2001 ACM SIGMETRICS international conference on Measurement and modeling of computer systems SIGMETRICS '01**, Volume 29 Issue 1

Publisher: ACM Press

Full text available: pdf(1.50 MB)   Additional Information: full citation, abstract, references, citings

In this paper, we examine algorithms and data structures for the longest prefix match operation required for routing IP packets. Previous work, aimed at hardware implementations, has focused on quantifying worst case lookup time and memory usage. With the advent of fast programmable platforms, whether network processor or PC-based, metrics which look instead at average case behavior and memory cache performance become more important. To address this, we consider a family of data structures captu ...

16 Modeling and measurement of the impact of Input/Output on system performance

Janaki Akella, Daniel P. Siewiorek

April 1991 **ACM SIGARCH Computer Architecture News , Proceedings of the 18th annual international symposium on Computer architecture ISCA '91**, Volume 19 Issue 3

Publisher: ACM Press

Full text available: pdf(952.88 KB)   Additional Information: full citation, references, citings, index terms

17 A comparison of two model-based performance-prediction techniques for message-passing parallel programs

Pankaj Mehra, Catherine H. Schulbach, Jerry C. Yan

May 1994 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 1994 ACM SIGMETRICS conference on Measurement and modeling of computer systems SIGMETRICS '94**, Volume 22 Issue 1

Publisher: ACM Press

Full text available: pdf(1.28 MB)   Additional Information: full citation, abstract, references, citings, index terms

This paper describes our experience in modeling two significant parallel applications: ARC2D, a 2-dimensional Euler solver; and, Xtrid, a tridiagonal linear solver. Both of these models were expressed in BDL (Behavior Description language) and simulated on an iPSC/860 Hypercube modeled using Axe (Abstract eXecution Environment). BDL models consist of abstract communicating objects: blocks of sequential code are modeled by single RUN statements; all communication operations in the original c ...

18 A model of file server performance for a heterogeneous distributed system

K K Ramakrishnan

August 1986 **ACM SIGCOMM Computer Communication Review , Proceedings of the ACM SIGCOMM conference on Communications architectures & protocols SIGCOMM '86**, Volume 16 Issue 3

Publisher: ACM Press

Full text available: pdf(1.06 MB)   Additional Information: full citation, abstract, references, citings, index terms

In this paper, we study the performance characteristics of a client-server style distributed system by a queueing network model. The system being modeled was based on an experimental distributed system currently being prototyped. As a specific detailed case study, we have evaluated the performance of a file server. A file server is a key component to achieve the data sharing necessary in a distributed system. The file server is probably the most heavily used resource of the distributed syst ...

19 The process-flow model: examining I/O performance from the system's point of view

Gregory R. Ganger, Yale N. Patt

June 1993 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 1993 ACM SIGMETRICS conference on Measurement and modeling of computer systems SIGMETRICS '93**, Volume 21 Issue 1

Publisher: ACM Press

Full text available: pdf(1.17 MB)   Additional Information: full citation, abstract, references, citings, index

Input/output subsystem performance is currently receiving considerable research attention. Significant effort has been focused on reducing average I/O response times and increasing throughput for a given workload. This work has resulted in tremendous advances in I/O subsystem performance. It is unclear, however, how these improvements will be reflected in overall system performance. The central problem lies in the fact that the current method of study tends to treat all I/O requests aa equally i ...

20 Performance of a parallel global atmospheric chemical tracer model

James Demmel, Sharon Smith
December 1995 **Proceedings of the 1995 ACM/IEEE conference on Supercomputing (CDROM) - Volume 00 Supercomputing '95**
Publisher: ACM Press, IEEE Computer Society
Full text available: pdf(241.52 KB)
html(2.73 KB)   Additional Information: full citation, abstract, references, citings, index
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As partof a NASA HPCC Grand Challenge project, we are designing and implementing a parallel atmospheric chemical tracer model that will be suitable for use in global simulations. To accomplish this goal, our starting point has been an atmospheric pollution model that was originally used to study pollution in the Los Angeles Basin. The model includes gas-phase and aqueous-phase chemistry, radiation, aerosol physics, advection, convection, deposition, visibility and emissions. The potential bottle ...

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